Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	23 October 2022
Team ID	PNT2022TMID10333
Project Name	Exploratory Analysis of Rainfall Data in India for Agriculture
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Rainfall Prediction Model	USN-1	Collecting weather dataset, data preprocessing the data and do a data visualization	5	High	Ranjith, Venkatesan
Sprint-1		USN-2	Train rainfall Prediction model using different machine learning algorithms	5	Medium	Allen joshuva, Ranjith
Sprint-1		USN-3	Test the best model and save best model by pickle library	5	High	Allen joshuva, Venkatesan
Sprint-1		USN-4	Train crop recommendation model using different machine learning algorithms	5	Medium	Allen joshuva, Ranjith
Sprint-1		USN-5	Test the best model and save best model by pickle library	5	High	Ranjith, Venkatesan

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Registration	USN-6	User can register for the application by entering his or her email, password, and confirming the password.	5	Medium	Ranjith, Subash
Sprint-2		USN-7	User will receive confirmation email or message once registered for the application	5	Low	Venkatesan, Ranjith
Sprint-2	Login	USN-8	Enter the username and password to login to the application	5	Medium	Allen joshuva, Venkatesan
Sprint-2		USN-9	The existing credentials should be used for login on multiple systems	5	Medium	Venkatesan, Subash
Sprint-2	Dashboard	USN-10	Forecast the today weather	10	Low	Subash, Ranjith
Sprint-3	Rainfall Prediction	USN-11	User can enter the weather parameters like min temp, max temp, etc	5	High	Allen joshuva, Venkatesan
Sprint-3		USN-12	Predict the rainfall and display the result	5	High	Venkatesan, Subash
Sprint-3		USN-13	Predict the sowing crop and display the result	5	High	Venkatesan, Subash
Sprint-4	Testing	USN-14	Test the application	10	High	Ranjith, Allen joshuva
Sprint-4	Deploy Model	USN-15	deploy the model in IBM cloud to make user friendly application	10	High	Venkatesan, Ranjith

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	30	6 Days	24 Oct 2022	29 Oct 2022	30	30 Oct 2022
Sprint-2	30	6 Days	31 Oct 2022	05 Nov 2022	30	06 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	13 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	20 Nov 2022

Velocity:

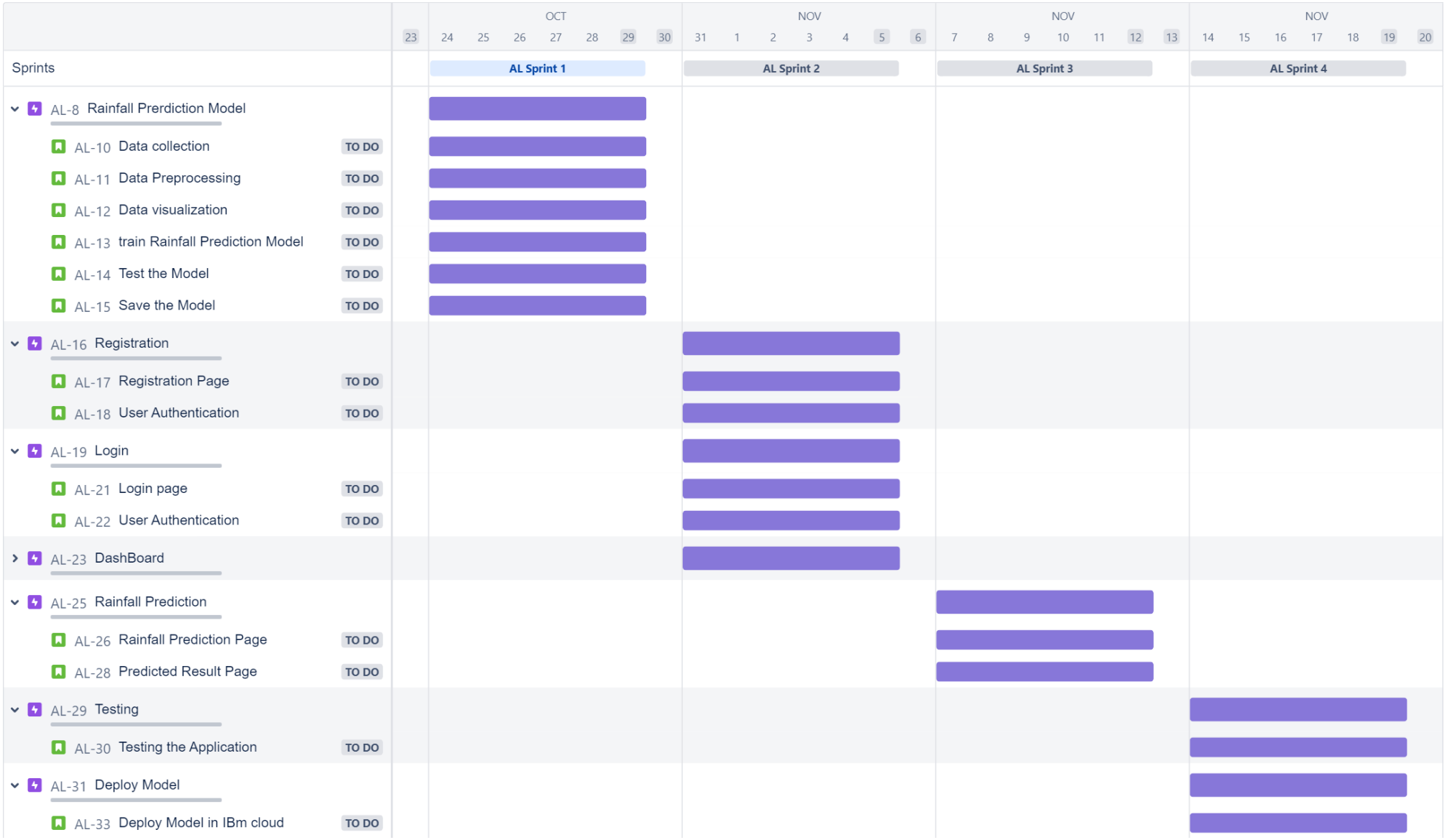
We have a 6-day sprint duration, and the velocity of the team is 20 to 30 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity}$$

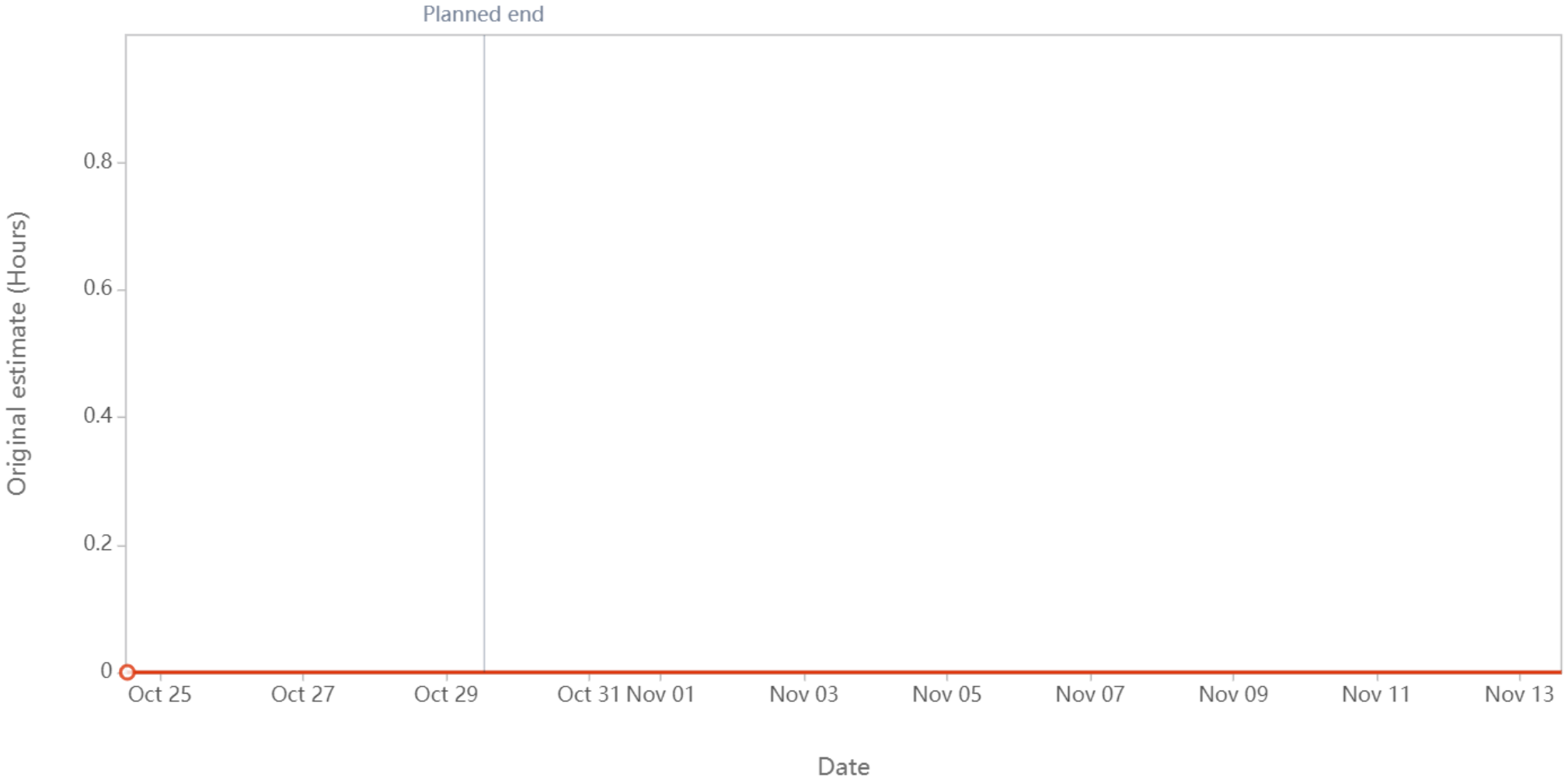
Sprint	Average Velocity
Sprint-1	**5**
Sprint-2	**5**
Sprint-3	**3.33**
Sprint-4	**3.33**

Total Average Velocity = 4.16

RoadMap


OCT
NOV
NOV
NOV
23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Sprints
AL Sprint 1
AL Sprint 2
AL Sprint 3
AL Sprint 4
AL-8 Rainfall Prerdiction Model
AL-10 Data collection TO DO
AL-11 Data Preprocessing TO DO
AL-12 Data visualization TO DO
AL-13 train Rainfall Prediction Model TO DO
AL-14 Test the Model TO DO
AL-15 Save the Model TO DO
AL-16 Registration
AL-17 Registration Page TO DO
AL-18 User Authentication TO DO
AL-19 Login
AL-21 Login page TO DO
AL-22 User Authentication TO DO
AL-23 DashBoard
AL-25 Rainfall Prediction
AL-26 Rainfall Prediction Page TO DO
AL-28 Predicted Result Page TO DO
AL-29 Testing
AL-30 Testing the Application TO DO
AL-31 Deploy Model
AL-33 Deploy Model in IBm cloud TO DO

Burndown Chart:



Atlassian link:

https://allenjoshua.atlassian.net/jira/software/projects/AL/boards/1/roadmap?shared=&atlOrigin=eyJpIjoiOWY2MzRkZDY3NWI4NDBmM2E1NDM1Yjk5YjFiOWUxZTgiLCJwIjoiaiJ9